

**Patient Name:** CASEY, KATE KATE  
**Patient Address:** 25 BLAXLAND AVENUE, LUDDENHAM 2745  
**D.O.B:** 13/01/1984  
**Medicare No.:** 25671276251  
**Lab. Reference:** 24-13514527-HPM-0  
**Addressee:** DR HEAVENLIA RAJENDRAN  
**Sex at Birth:** F  
**IHI No.:**  
**Provider:** 4Cyte Pathology  
**Referred by:** Dr H. Rajendran  
**Date Requested:** 21/06/2024  
**Date Collected:** 6/08/2024  
**Specimen:**  
**Subject(Test Name):** FULL BLOOD COUNT  
**Clinical Information:**

**Date Performed:** 6/08/2024  
**Complete:** No

Clinical Notes: routine screening

#### Full Blood Count (Whole Blood)

Coll Date:	06/08/24	29/07/23		
Coll Time:	09:28	09:25		
Lab Number:	13514527	10971256		
HAEMOGLOBIN	134	129	(115-165)	g/L
RBC	4.0	4.1	(3.8-5.8)	10 <sup>12</sup> /L
HCT	0.39	0.39	(0.32-0.46)	
MCV	98.1	96.2	(80.0-100.0)	fL
MCH	33 H	32	(26-32)	pg
MCHC	341	329	(300-360)	g/L
RDW	14.3	15.0	(< 15.1)	%
WCC	10.1	6.8	(4.0-11.0)	10 <sup>9</sup> /L
Neutrophils	7.1	4.1	(2.0-8.0)	10 <sup>9</sup> /L
Lymphocytes	2.1	1.9	(1.0-4.0)	10 <sup>9</sup> /L
Monocytes	0.5	0.4	(0.2-1.0)	10 <sup>9</sup> /L
Eosinophils	0.3	0.4	(< 0.8)	10 <sup>9</sup> /L
Basophils	0.0	0.0	(< 0.2)	10 <sup>9</sup> /L
PLATELETS	358	306	(150-400)	10 <sup>9</sup> /L
MPV	7.0	7.3	(6.5-14.0)	fL

No significant abnormality.

Tests to follow: TFT, VD/PTH, CHEM, FATS, B12/FOL, FE, CRP, BSL, HbA1C



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Lab. Reference: 24-13514527-RCM-0  
Addressee: DR HEAVENLIA RAJENDRAN

Sex at Birth: F  
IHI No.:  
Provider: 4Cyt Pathology  
Referred by: Dr H. Rajendran

Date Requested: 21/06/2024  
Date Collected: 6/08/2024

Date Performed: 6/08/2024  
Complete: No

Specimen:  
Subject(Test Name): BIOCHEMISTRY, SERUM  
Clinical Information:

Clinical Notes: routine screening  
Pathologist: A/Prof P. Stewart

#### Biochemistry (Serum)

Coll Date: 06/08/24 29/07/23  
Coll Time: 09:28 09:25  
Lab Number: 13514527 10971256

Sodium	136	140	(135-145)	mmol/L
Potassium	4.0	4.9	(3.5-5.3)	mmol/L
Chloride	105	104	(95-110)	mmol/L
Bicarbonate	24	29	(22-32)	mmol/L
Anion Gap	11	12	(8-19)	mmol/L
Urea	3.9	4.5	(3.2-8.2)	mmol/L
Creatinine	100 H	94 H	(45-90)	umol/L
eGFR	61	66	(> 59)	
Total Protein	73	73	(60-80)	g/L
Globulin	35	34	(23-39)	g/L
Albumin	38	39	(34-50)	g/L
Bilirubin Total	10	9	(< 21)	umol/L
Alk. Phosphatase	68	76	(30-110)	U/L
Gamma GT	20	17	(< 36)	U/L
ALT	64 H	35 H	(< 35)	U/L
AST	53 H	38 H	(< 30)	U/L
Calcium	2.34	2.44	(2.10-2.60)	mmol/L
Adj. Calcium	2.38	2.46	(2.10-2.60)	mmol/L
Phosphate	0.78	1.13	(0.75-1.50)	mmol/L
Magnesium	0.87	0.84	(0.70-1.10)	mmol/L

Tests to follow: FE, HbA1C



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Lab. Reference: 24-13514527-FEM-0  
Addressee: DR HEAVENLIA RAJENDRAN  
Sex at Birth: F  
IHI No.:  
Provider: 4Cyt Pathology  
Referred by: Dr H. Rajendran  
Date Requested: 21/06/2024  
Date Collected: 6/08/2024  
Specimen:  
Subject(Test Name): IRON STUDIES  
Clinical Information:

Date Performed: 6/08/2024  
Complete: No

Clinical Notes: routine screening

**Iron Studies (Serum)**

Coll Date: 06/08/24 29/07/23  
Coll Time: 09:28 09:25  
Lab Number: 13514527 10971256

Ferritin 72 55 (30-200) ug/L

Tests to follow: HbA1C



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Medicare No.: 25671276251  
Lab. Reference: 24-13514527-VBM-0  
Addressee: DR HEAVENLIA RAJENDRAN  
Sex at Birth: F  
IHI No.:  
Provider: 4Cyt Pathology  
Referred by: Dr H. Rajendran  
Date Requested: 21/06/2024  
Date Collected: 6/08/2024  
Specimen:  
Subject(Test Name): B12/FOLATE MASTER  
Clinical Information:  
Date Performed: 6/08/2024  
Complete: No

Clinical Notes: routine screening

**B12/Folate (Serum)**

Coll Date: 06/08/24 29/07/23  
Coll Time: 09:28 09:25  
Lab Number: 13514527 10971256

Vitamin B12	584	438	(156-670)	pmol/L
Serum Folate	> 54.4	34.9	(> 12.0)	nmol/L

Tests to follow: FE, HbA1C



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D.O.B: 13/01/1984 Sex at Birth: F  
Medicare No.: 25671276251 IHI No.:  
Lab. Reference: 24-13514527-CRP-0 Provider: 4Cyte Pathology  
Addressee: DR HEAVENLIA RAJENDRAN Referred by: Dr H. Rajendran  
Date Requested: 21/06/2024 Date Performed: 6/08/2024  
Date Collected: 6/08/2024 Complete: No  
Specimen:  
Subject(Test Name): C-REACTIVE PROTEIN  
Clinical Information:

Clinical Notes: routine screening  
Pathologist: A/Prof P. Stewart

**C-Reactive Protein (Serum)**

Coll Date: 06/08/24 29/07/23  
Coll Time: 09:28 09:25  
Lab Number: 13514527 10971256

C-Reactive Prot. 12.3 H 3.0 (< 5.0) mg/L

Moderate elevations in CRP levels (10.1-100 mg/L) indicate an acute phase reaction generally associated with clinically significant inflammatory disease, bacterial infection and to a lesser extent viral infection.

Tests to follow: FE, HbA1C



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Lab. Reference: 24-13514527-MBM-0  
Addressee: DR HEAVENLIA RAJENDRAN  
Sex at Birth: F  
IHI No.:  
Provider: 4Cyte Pathology  
Referred by: Dr H. Rajendran  
Date Requested: 21/06/2024  
Date Collected: 6/08/2024  
Specimen:  
Subject(Test Name): VITD/PTH  
Clinical Information:  
Date Performed: 6/08/2024  
Complete: No

Clinical Notes: routine screening  
Pathologist: A/Prof P. Stewart

**Vitamin D and Metabolic Bone Markers (Serum)**

Coll Date: 06/08/24 29/07/23  
Coll Time: 09:28 09:25  
Lab Number: 13514527 10971256

25-OH Vit D 45 L 38 L (50-200) nmol/L

25-OH Vit D result consistent with mild deficiency. If commencing / altering supplementation, measure 25-OH Vit D again in three to four months. Target level > 50 nmol/L at the end of winter.

Tests to follow: FE, HbA1C



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Patient Address: 25 BLAXLAND AVENUE, LUDDENHAM 2745  
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Medicare No.: 25671276251  
Lab. Reference: 24-13514418-STE-0  
Addressee: DR HEAVENLIA RAJENDRAN  
Sex at Birth: F  
IHI No.:  
Provider: 4Cyte Pathology  
Referred by: Dr H. Rajendran  
Date Requested: 21/06/2024  
Date Collected: 6/08/2024  
Specimen:  
Subject(Test Name): SERUM TRACE ELEMENTS  
Clinical Information: Date Performed: 6/08/2024  
Complete: No

Clinical Notes: for naturopath  
Pathologist: A/Prof P. Stewart

**Trace Elements (Serum)**

Coll Date: 06/08/24  
Coll Time: 09:23  
Lab Number: 13514418

Zinc	10.6	(8.0-17.0)	umol/L
Copper	18.1	(11.8-22.8)	umol/L

Tests to follow: All Tests now completed



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**Lab. Reference:** 24-13514527-THM-0  
**Addressee:** DR HEAVENLIA RAJENDRAN  
**Sex at Birth:** F  
**IHI No.:**  
**Provider:** 4Cyte Pathology  
**Referred by:** Dr H. Rajendran  
**Date Requested:** 21/06/2024  
**Date Collected:** 6/08/2024  
**Specimen:**  
**Subject(Test Name):** THYROID  
**Clinical Information:**  
**Date Performed:** 6/08/2024  
**Complete:** No

**Clinical Notes:** routine screening  
**Pathologist:** A/Prof P. Stewart

**Thyroid (Serum)**

**Coll Date:** 06/08/24 29/07/23  
**Coll Time:** 09:28 09:25  
**Lab Number:** 13514527 10971256

**TSH** 2.08 1.95 (0.50-4.00) mIU/L

Euthyroid.

Tests to follow: CHEM, FE, CRP, HbA1C



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**Lab. Reference:** 24-13514527-LPM-0 **Provider:** 4Cyte Pathology  
**Addressee:** DR HEAVENLIA RAJENDRAN **Referred by:** Dr H. Rajendran  
  
**Date Requested:** 21/06/2024 **Date Performed:** 6/08/2024  
**Date Collected:** 6/08/2024 **Complete:** No  
**Specimen:**  
**Subject(Test Name):** LIPID STUDIES  
**Clinical Information:**

**Clinical Notes:** routine screening  
**Pathologist:** A/Prof P. Stewart

#### Lipid Studies (Serum)

**Coll Date:** 06/08/24 29/07/23  
**Coll Time:** 09:28 09:25  
**Lab Number:** 13514527 10971256

Status	Fasting	Fasting		
Cholesterol	6.1 H	6.5 H	(< 5.6)	mmol/L
Triglyceride	1.1	0.9	(< 2.1)	mmol/L
HDL-c	2.1	1.8	(> 1.1)	mmol/L
LDL-c	3.5 H	4.3 H	(< 3.1)	mmol/L
TC/HDL-c	2.9	3.6	(< 4.5)	
Non-HDL-c	4.0	4.7 H	(< 4.1)	mmol/L

**National Heart Foundation treatment targets for high risk patients:**  
 Cholesterol <4.0  
 Triglyceride <2.0  
 HDL-c >1.0  
 LDL-c <2.5 (<1.8 mmol/L for very high risk)  
 Non-HDL-c <3.3 (<2.5 mmol/L for very high risk)

**Tests to follow:** FE,HbA1C



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**Lab. Reference:** 24-13514527-CHB-0  
**Address:** DR HEAVENILA RAJENDRAN  
**Sex at Birth:** F  
**ISS No.:**  
**Provider:** ACyna Pathology  
**Referred by:** Dr H. Rajendran  
**Date Requested:** 21/06/2024  
**Date Collected:** 6/08/2024  
**Specimen:**  
**Subject/Test Name:** HBA1C  
**Clinical Information:**

**Date Performed:** 6/08/2024  
**Complete:** No

**Clinical Notes:** routine screening  
**Pathologist:** A/Prof P. Stewart

**Diabetic Testing (Whole Blood)**

**Coll Date:** 06/08/24 29/07/23  
**Coll Time:** 09:28 09:25  
**Lab Number:** 13514527 10971256

HbA1c (NGSP)	5.3	5.4	(4.0-5.9)	%
HbA1c (IFCC)	34	36	(20-41)	mmol/mol

Tests to follow: All Tests now completed



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Medicare No.: 25671276251  
Lab. Reference: 24-13514527-GLM-0  
Addressee: DR HEAVENLIA RAJENDRAN  
Sex at Birth: F  
IHI No.:  
Provider: 4Cyte Pathology  
Referred by: Dr H. Rajendran  
Date Requested: 21/06/2024  
Date Collected: 6/08/2024  
Specimen:  
Subject(Test Name): GLUCOSE  
Clinical Information: Date Performed: 6/08/2024  
Complete: No

Clinical Notes: routine screening  
Pathologist: A/Prof P. Stewart

**Glucose (Serum/Plasma)**

Coll Date: 06/08/24 29/07/23  
Coll Time: 09:28 09:25  
Lab Number: 13514527 10971256

Glucose Fasting 5.8 H 5.4 (3.0-5.4) mmol/L

Glucose result in the equivocal range. No documented laboratory history of diabetes. Recommend annual testing in patients with confirmed impaired status.

Tests to follow: FE, HbA1C



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Lab. Reference: 24-13514418-HCY-0  
Addressee: DR HEAVENLIA RAJENDRAN  
Sex at Birth: F  
IHI No.:  
Provider: 4Cyte Pathology  
Referred by: Dr H. Rajendran  
Date Requested: 21/06/2024  
Date Collected: 6/08/2024  
Specimen:  
Subject(Test Name): HOMOCYSTEINE (PLASMA)  
Clinical Information:  
Date Performed: 6/08/2024  
Complete: No

Clinical Notes: for naturopath  
Pathologist: A/Prof P. Stewart

**Hypertension (Serum)**

Coll Date: 06/08/24  
Coll Time: 09:23  
Lab Number: 13514418

Homocysteine 8.2 (3.7-13.9) umol/L

Tests to follow: STE